Beam Power Tube

NOVAR TYPE

For TV Horizontal-Deflection-Amplifier Applications

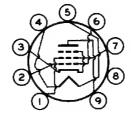
GENERAL DATA

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	Electrical:		
	Heater Characteristics and Ratings: Voltage (AC or DC)		
	respect to cathode 200 max. volts Heater positive with		
$\overline{}$	respect to cathode 200 max. volts Direct Interelectrode Capacitances (Approx.):		
	Grid No.1 to plate 0.26 pf Grid No.1 to cathode & grid No.3.		
	grid No.2, and heater 15.0 pf Plate to cathode & grid No.3,		
	grid No.2, and heater 6.5 pf		
Characteristics, Class A _i Amplifier:			
	Triode Connec- tion ^c		
	Plate Voltage		
<u> </u>	Grid-No.2 Current 32 ^d 2.1 - ma Grid-No.1 Voltage (Approx.) for		
	plate ma. = $0.1 \cdot \dots42$ - volts		
	Mechanical:		
	Operating Position		
	Base Large-Button Novar 9-Pin (JEDEC No. E9-76)		

- indicates a change.

Basing Designation for BOTTOM VIEW. 9NZ

Pin 1-Grid No.2 Pin 2-Grid No.1 Pin 3-Cathode, Grid No.3 Pin 4-Heater



Pin 5 - Heater Pin 6 - Grid No.1 Pin 7 - Grid No.2 Pin 8 - Do Not Use Pin 9 - Plate

HORIZONTAL-DEFLECTION AMPLIFIER

For operation in a 525-line, 30-frame systeme

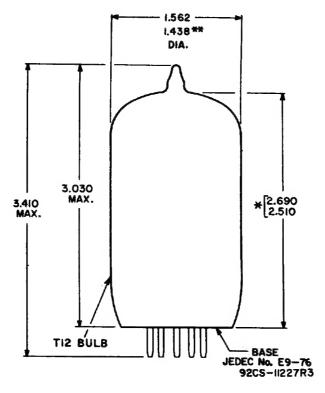
Maximum Ratings, Design-Maximum Values:

DC PLATE-SUPPLY VOLTAGE	volts		
PEAK POSITIVE-PULSE PLATE VOLTAGE ^f 6500 max.	volts		
PEAK NEGATIVE-PULSE PLATE VOLTAGE 1500 max.	volts		
DC GRID-No.2 (SCREEN-GRID) VOLTAGE 220 max.	volts		
DC GRID-No.1 (CONTROL-GRID) VOLTAGE55 max.	volts		
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE 330 max.	volts		
CATHODE CURRENT:			
Peak	ma		
Average	ma		
GRID-No.2 INPUT 3.5 max.	watts		
PLATE DISSIPATION ⁹	watts		
BULB TEMPERATURE (At hottest			
point on bulb surface) 240 max.	οС		

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:
For grid-resistor-bias operation. . . . 1 max. megohm

- The dc component must not exceed 100 volts.
- b Without external shield.
- $\frac{\mathbf{c}}{2}$ With grid No.2 connected to plate.
- d This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.
- As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.
- f This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
- 9 An adequate bias resistor or other means is required to protect the tube in the absence of excitation.



ALL DIMENSIONS IN INCHES

- ** APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.
- * MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.600" INSIDE DIAMETER.

AVERAGE CHARACTERISTICS

